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Distr: 4E2c/4E2b(w)
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• Skarbiński M. Construction of Castings¹⁸

„konstrukcja odlewów”. Warszawa, 1957, PWT, 16°, 342 pp., 599 figs.
81 tabs.

The author discusses the principles of castings construction and selection of materials for castings made by various technological methods, taking into consideration the required strength and rigidity required in a casting, the working conditions in a machine¹⁴ and the technological requirements — depending on volume of output — of moulding, pouring, cleaning and machining a casting.

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EM

23

ALIKAYEV, V.A.; TARANENKO, I.L., veterinarnyy vrach; NIKOLAYEV, P.Ya., veterinarnyy vrach; MIKHAYLETS, R.M., veterinarnyy vrach; ARTEMENKO, I.A., veterinarnyy fel'dsher; MOSKALENKO, A.N., veterinarnyy fel'dsher; AL'BERTYAN, M.P., veterinarnyy vrach; SKARBOVENKO, V.I., veterinarnyy vrach; MOROZOV, A.I., veterinarnyy fel'dsher; VESHCHEVAYLOV, V.T., veterinarnyy vrach; LUZHENKO, I.U., veterinarnyy fel'dsher; RUDOMETKIN, Ya.L., veterinarnyy vrach; PARSHUTKIN, I.M., veterinarnyy vrach; GOLOVANOVA, A.I., veterinarnyy vrach; SHIPILOVA, N.M., veterinarnyy vrach; SPIROV, V.D., veterinarnyy vrach; BONDARENKO, V.H., veterinarnyy vrach; KOVAL', P.K., veterinarnyy fel'dsher; ZHAMSUYEV, B.TS., veterinarnyy vrach; APALEV, Ye.M., veterinarnyy vrach; KOLOTIY, N.A., veterinarnyy vrach

Diseases of the young animal, their prevention and treatment; based on data received by the editors. Veterinariia 39 no.1:49-54 Ja '62. (MIRA 15:2)

1. Besodinskaya rayonnaya veterinarnaya lechebnitsa, Kurskoy oblasti (for Taranenko).
2. Bo'sho-Sosnovskaya rayonnaya lechebnitsa, Fermskoy oblasti (for Nikolayev).
3. Aleksandrovskiy veterinarnyy uchastok, Voznesenskogo rayona, Nikolayevskoy oblasti, Ukrainskoy SSR (for Mikhaylets, Artemenko, Moskalenko).
4. Kolkhoz "40 let Oktyabrya", Tarliyskogo rayona, Moldavskoy SSR (for Al'bertyan).

(Continued on next card)

KHIMUNIN, S.D., kand. tekhn. nauk; SHARLYGINA, K.A., ml. nauchn. sotr.; VGLCHKOVA, A.T., st. inzh.; Primalni uchastiye: POPOVA, N.V., inzh.; BYCHKOVA, A.A., inzh.; SKAREOVICHUK, T.G., inzh.; VIYRA, I.I., arkhitektor; SHEYNA, T.M., st. tehnik

[Recommendations on redesigning and improving the living conditions of apartment houses of old towns] Rekomendatsii po pereplanirovke i povysheniiu blagoustroistva zhilykh domov staroi zastroiki gorodov. Leningrad, Stroiizdat, 1965. 131 p. (MIRA 18:8)

1. Akademiya kommunal'nogo khozyaystva. Leningradskiy nauchno-issledovatel'skiy institut. 2. Rukovoditel' laboratorii kapital'nogo remonta zhilykh domov Leningradskogo nauchno-issledovatel'skogo instituta Akademii kommunal'nogo khozyaystva im. K.D.Famfilova (for Khimunin).

MAKSIMOV, V.A.; SKARBUN, V.S.

On the road of creative searching. Koks i khim. no.16:3-5
'61. (MIRA 15:2)

1. Direktor Zhdanovskogo koksokhimicheskogo zavoda (for Maksimov).
(Coke industry)

SKARCHENKO, V.I., Cond Chem Sci--(Disc) ^E "The Effect of conditions
of reduction of the industrial catalyst of ammonia ^{Synthesis 4/52} structure
and specific activity." *Dokl. Akad. Sci USSR. Inst of
Physical Chemistry in L.V. Pisarzhevskiy*, 190 copies (K2, 47-52, 243)

SKARCHENKO, V.K.; BUSOV, M.T.; STREL'TSOV, O.A.; RADCHENKO, N.P.;
SNIGUROVSKAYA, Yu.A.

Effect of the reduction conditions of industrial catalysts for
ammonia synthesis on their specific activity. Report No.1:
Kinetics of the catalyst reduction. Ukr. khim. zhur. 24 no.4:
443-448 '58. (MIRA 11:10)

1. Institut fizicheskoy khimii im. L.V. Pisarzhevskogo AN USSR.
(Catalysts) (Reduction, Chemical)

SKARCHENKO, V.K.; RUSOV, M.T.; STREL'TSOV, O.A.

Effect of the reduction conditions of industrial catalysts for ammonia synthesis on their relative activity. Part 2: Sorption of methyl alcohol on an iron catalyst for ammonia synthesis. Ukr. khim. zhur. 24 no.4:449-452 '58. (MIRA 11:10)

1. Institut fizicheskoy khimii im. L.V. Pisarzhovskogo AN USSR.
(Methanol) (Sorption) (Catalysts)

SKARCHENKO, V.K.; RUSOV, M.T.; STREL'TSOV, O.A.; RADCHENKO, N.P.;
SNIGUROVSKAYA, Yu.A.

Effect of the reduction conditions on specific activity of industrial
catalysts for ammonia synthesis. Part 3: Effect of the grain size and
temperature conditions of reduction on specific activity of the
catalyst. Ukr.khim.zhur. 24 no.5:602-607 ' 58. (MIRA 12:1)

1. Institut fizicheskoy khimii imeni L.V. Pisarzhevskogo AN USSR.
(Catalysts) (Activity coefficients) (Ammonia)

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AUTHORS:

Strel'tsov, O.A., Rusov, M.T.,
Skarchenko, V.K.

SOV/76-33-11-26/47

TITLE:

Influence of the Conditions of Formation on the Specific Activity of an Ammonia Catalyst

PERIODICAL:

Zhurnal fizicheskoy khimii, 1959, Vol 33, Nr 11, pp 2521-2523 (USSR)

ABSTRACT:

The influence of the conditions at the reduction of catalysts, (for the ammonia synthesis) of a certain chemical composition, on the size of the catalyst surface and the catalytic activity has been investigated. A twice "promoted" (4% Al_2O_3 , 2% K_2O) commercial iron catalyst of type A was applied, the granulation of the catalyst and the reduction temperature were changed (Table 1). The catalytic activity was determined by the reaction rate of the ammonia synthesis according to the circulation method at 730 mm Hg, a volume rate of 6300 l/hour·1 catalyst, and at 200-500 °C, while the rate constant was calculated according to the equation of M.I. Temkin and V.M. Pyzhev (Ref 1). The surface of the samples was calculated according to the BET method from the sorption isothermal lines for methanol at 20 °C. Variations of the reduc-

Card 1/2

SKARCHENKO, Vladimir Konstantinovich; VYSOTSKIY, Z.Z., otv. red.;
POKROVSKAYA, Z.S., red.; TURVANOVA, N.A., tekhn. red.

[Aluminosilicate catalysts in the light of the modern
theory of heterogeneous catalytic processes] Aluminosili-
katnye katalizatory v svete sovremennoi teorii getero-
genno-kataliticheskikh protsessov. Kiev, Izd-vo Akad.
nauk USSR, 1963. 117 p. (MIRA 16:4)
(Aluminosilicates) (Catalysis)

SKARCHENKO, V.K.

Selectivity of dehydrogenation catalysts. Dop. AN URSR no.8:
1058-1060 '63.

1. Institut polimerov i monomerov AN UkrSSR. Predstavleno
akademikom AN UkrSSR V.A. Royterom.
(Dehydrogenation) (Catalysts)

FROLOVA, V.S.; POLATAYKO, R.I.; SKARCHENKO, V.K.; MUSIYENKO, V.P.;
GALICH, P.N.

Dehydrogenation of n-hexane on chrome-zinc oxide catalysts.
Nef. i gaz. prom. no.3:54-55 J1-S '64.

(MIRA 17:12)

KONOVA, O.B.; GALICH, I.O.; SHCHYTSKYI, V.P.; SKARCHENKO, V.K.;
PETROV, A.A.

Effect of the porous structure of an alumina-chromium oxide
catalyst on the conversion of n-hexane. Kiz. i kat. 5 no.2:
350-354. Mar-Apr '64. (MIRA 17:8)

1. Institut khimii vysokomolekulyarnykh soyedineniy AN UkrSSR.

SKARCHENKO, V.K.; FROLOVA, V.S.; GOLUBCHENKO, I.T.; MUSIYENKO, V.P.;
GALICH, P.N.

Iron-aluminum oxides as catalysts for dehydrogenation of n-alkanes.
Kin. i kat. 5 no.5:932-935 S-O '64. (MIRA 17:12)

1. Institut khimii vysokomolekulyarnykh soedineniy AN UkrSSR.

MESIYENKO, V.P.; POIATAYKO, R.I.; SKARCHENKO, V.K.; FROLOVA, V.S.;
GALICH, R.N.; prinimali uchastiye: Lepsha, I.F.; Kubyshkina, G.A.

Conversion of n-hexane on chromium-magnesium oxide catalysts.
Ukr. khim. zhur. 30 no.9:915-918 '64.

(MIRA 17:10)

1. Institut vysokomolekulyarnykh sovedineniy AN UkrSSR.

SKARCHENKO, V.K.; GALICH, P.N.; GOLUBCHENKO, I.T.; FROLOVA, V.S.;
MUSIYENKO, V.P.

Chromium-iron-aluminum oxides as catalysts for n-hexane dehydro-
genation. Kin. i kat. 5 no.3:548-549 My-Je '64.

(MIRA 17:11)

1. Institut khimii polimerov i monomerov AN UkrSSR.

KONVAL'CHEROV, G.D.; GALICH, P.H.; PETROV, A.A.; SEMENOV, V.K.

Dehydrogenation of n-hexane on activated carbon and Cr_2O_3 -
coal catalysts. *Kin. i kat.* 5 no.3:561-563 My-86 164.
(1986-17:11)

I. Institut khimii polimerov i monomerov AN UkrSSR.

POLATAYEV, P.I.; KHEZUMKOVA, N.S.; FROLOVA, V.S.; GALICH, P.N.; SKARCHENKO, V.K.

Dehydrogenation of a benzene on molybdenum-sulfide catalysts.
Nefit. i gaz. prom. no. 2.53-54 Apr-Je '65.

(MIRA 18:6)

KOSTETSKIY, B.I. [Kostets'kyi, B.I.]; NATANSON, M.E.; SKARCHENKOV, K.Z.;
TOPEKHA, P.K.

Selection of additives for lubricating oils. Dop. AN URSSR
no.11:1494-1497 '64. (MIRA 18:1)

1. Kiyevskiy institut Grazhdanskogo vozdušnogo flota.
Predstavleno akademikom AN UkrSSR F.D. Ovcharenko.

L 00313-66 EWT(m)/EPF(c)/T BW/DJ/GS
ACCESSION NR: AT5020432

UR/0000/65/000/000/0057/0060

AUTHORS: Kostetskiy, B. I.; Natanson, M. E.; Skarchenkov, K. Z.; Topelka, P. K.

TITLE: Choice of additives for lubrication oils

SOURCE: AN SSSR. Nauchnyy sovet po treniyu i smazkam. Teoriya smazochnogo deystviya i novyye materialy (Theory of lubricating action and new materials). Moscow, Izd-vo Nauka, 1965, 57-60

TOPIC TAGS: lubricant, lubricant additive, additive / KIGVF 1 additive, KIGVF 2 additive, MS 20 lubricating oil, KE 4 friction apparatus

ABSTRACT: New, highly effective lubrication oil additives consisting of rhodanides and dithionates of copper, iron, cobalt, and manganese, as well as complex sulfur- and fluorine-containing compounds (KIGVF-1, KIGVF-2), were developed. These additives were tested in aviation oil MS-20 over a range of conditions on friction machine KE-4 (B. I. Kostetskiy. Soprotivleniye izmashivaniyu metallov. M., Mashgiz, 1959). It was found that addition of copper rhodanide decreased wear by a factor of 2 (at $v = 300$ rpm, $P = 40$ kg/cm²), doubled the maximum possible load (to 2750 kg/cm²), and quadrupled the speed at which binding occurs

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OF KIGVF-1 AND KIGVF-2. CORRESPONDING IMPROVEMENT FACTORS OF 2- TO 4-FOLD IMPROVEMENT (CONCENTRATION) GAVE 2-3, 1.3-1.9, AND 2- TO 4-FOLD IMPROVEMENT ON THEIR CHEMICAL INTERACTION WITH THE SURFACE CONTENT IN THE EX-

L 40904-65 EWT(m)/EDF(c)/EWP(w)/EWA(d)/T/EWP(t)/EWP(h) JD/DJ
ACCESSION NR: AP5009279 S/0369/65/001/001/0032/0030

32
31

AUTHOR: Kostetsky, B.I.; Kolesnichenko, L.F.; Ostrovoy, Yu. D.; Natanson, M.
Skarchenkov, K.Z.; Topekha, P.K.

TITLE: Additives to lubricating oils and their action during friction

SOURCE: Fiziko-khimicheskaya mekhanika materialov, v. 1, no. 1, 1965, 32-39

TOPIC TAGS: lubricating oil, oil additive, metal friction, surfactant additive, contact friction, metal thiocyanate, metal dithizonate, friction couple

ABSTRACT: After discussing the mechanisms by which a lubricant operates in contact friction between metals and pointing out the desirable effects of additives, the authors review the reported data on surface-active additives and chemically active additives to lubricants. The changes brought about by surface-active additives in the contact surface of the metal under conditions of friction are considered (changes in plastic deformation and in the resultant hardening, changes in the density of dislocations and in the intragranular structure). In the case of chemically active additives, the desirable effects of such compounds are thought to be due to their decomposition under the influence of the high temperature produced by the friction. Investigations of metal complexes of the type of thiocyanates and dithizonates are reviewed, and their effects are illustrated by the example of an armco —

Card 1/2

L 40904-65

ACCESSION NR: AP5009279

armco friction couple. Orig. art. has: 4 figures and 1 table.

ASSOCIATION: KIGA, Kiev

SUBMITTED: 15Sep64

ENCL: 00

SUB CODE: FF, MM

NO REF SOV: 013

OTHER: 000

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Card

PURSKI, Jerzy; SKARCZ, Andrzej; ZATONSKI, Emil

Angioma of the anterior tibial muscle. Chir. narz. ruchu 24.no.1:
73-76 1959.

1. Z Kliniki Ortopedycznej A.M. w Lublinie Kierownik: doc. dr St.
Piatkowski. Lublin ul. Stadzica 11, Klinika Ortopedyczna.

(ANGIONA, case reports,
tibial musc. (Pol))

(LEG, neoplasms,
angioma of anterior tibial musc. (Pol))

SKARDA, B.

"Radej, Z. Application of nomograms in plant laboratories. p. 588."

FRUMSL PETRAVIN. Praha, Czechoslovakia. Vol. 9, no. 11, 1958.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 6, Jun 59 unclas

SKARDA, Daniel, inz.

Problems of calculating the danger induction effect of high-voltage
and extra high-voltage lines. Cs spoje 9 no.4:12-17 Ag '64.

1. Research Institute of Telecommunications.

SKRIP, 1961, 192.

Effects of lightning discharges on telecommunication lines.
On page 9 no. 5: 10-14 1961.

1. Federal Institute of Telecommunication, Berlin.

SKARDA, Daniel Z., inz.

Mobile laboratory for measurement of long distance telecommunication
cables. Cs spoje IC no.2:12-15 exp '65.

1. Research Institute of Telecommunications,

Prague, Veda a zivoti, No 4, April 1962
Copyright: Otilie, Prague, 1962

1. "Isotopes in Biological Sciences." Arnost KRYMPELAK,
Docent, M.D. RNDr. Director of the Laboratory for
the Study of the Inheritance of Matter in
Tissues (Laboratory for Studies on the
Molecular Biology of the Czechoslovak Academy of
Sciences, Prague) pp 200-204.
2. "Vili Vilagaz Diaspar and Tomu Grac? Bzen STANB.
Professor, Eng. Architect and Architect of the Research
Institute for Building and Architecture (Prague) written
by Stanby a architektury). Arco; pp 205-211.
3. "Man and Time." Alois PEKIVA, Professor, current editor
in chief of the Astronomical Institute (Astronomický
ústav) Faculty of Natural Sciences (Přírodovědná fa-
kulta), J.E. Purkyně University (Univerzita J.E. Purky-
nů), Brno; pp 212-215.
4. "Neurophysiology on the Eve of Big Discoveries." Tomas
VILIS, Associate Professor (Přemyslav Jekel), C. Sc., sci-
entific worker of the Physiological Institute, CNAV
(Fysiologický ústav CNAV), Prague; pp 216-219.
5. "Past and Present in Guinea." Olga ŠLANKOVÁ, Ph.D.,
scientific worker of the Institute for Ethnography and
Folklore, CNAV (Ústav pro etnografii a folklorní vědu
CNAV), Prague; pp 220-223.

(11)
(13)

S/194/62/000/008/013/100
D201/D308

AUTHOR: Škarda, Jiří

TITLE: A coordinate transformation system

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika,
no. 8, 1962, abstract 8-2-54 ch (Souhrn prací o auto-
mat. 1959, Prague, 1961, 447-458 [Czech.; summary in
Eng.])

TEXT: Description of a coordinate transformation system in which
the receiver is a servomechanism and the transforming circuit is a
differential analyzer. The system utilizes vacuum tubes and ferrites.
4 references. [Abstracter's note: Complete translation.]

Card 1/1

SKARDA, J.

"Meda"; the small electronic differential analyzer.

p. 185 (STROJE ZPRACOVANI INFORMACI) Vol. 5, 1957,
Praha, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 3,
March 1958

SKARDA, K. Sefl, Z

A plan for the safe exploitation of coal reserves under the Detritus. p. 278
(Uhli, Vol. 0, no. 8, Aug. 1956, Praha, Czechoslovakia.)

SO: Monthly List of East European Accessions (EEAL) LC. Vol.6, no. 12, Dec. 1957.
Uncl.

SKARDA, Milan, inz.

Effect of farm manure on the yield of crops in crop rotation.
Rost výroba 9 no.3/4:253-270 Mr-Ap '63.

1. Ustredni vyzkumny ustav rostlinne vyroby, oddeleni vyzivy
rostlin, Ruzyně.

SKARDA Milan. inz.

Scientific conference on the research on organic manures.
Vest ust zemedel 12 no.3:109 '65.

1. Central Research Institute of Plant Production, Prague-
Ruzyně.

SKARDA, Milan, inz.

Effect of farm manure on the productivity of crop rotation.
Rost vyroba 9 no.11:1173-1192 N '63.

1. Ustredni vyzkumny ustav rostlinne vyroby, oddeleni vyzivy rostlin,
Ruzyne.

SKARDA, M.; MENSIKOVA, Z.

Peroperative electroencephalography as a method of control of general anesthesia in neurosurgical operations. *Cesk. neural.* 28 no.6:444-453 N ' 65.

1. Anesteziologicke oddeleni fakultni nemocnice v Hradci Kralove (vedouci MUDr. J. Vecko) a Neurochirurgicka klinika lekarske fakulty Karlovy University v Hradci Kralove (prednosta - prof. dr. R. Petr).

KOPACOVA, L.;VRBA, C.;PIVNIK, J.;SKARDA, R.

Topical tolerance to local anesthetic effect of prolonged-action benzocaine solution behaving as a microcrystalline implant. Cesk. fysiол. 9 no.1:84-85 Ja 60.

1. Odd. farmakodynamiky a toxikologie farmaceuticke fak. MU. Ustav farmakologie a Ustav patologicke anatomie vet. fak. VSZL, Brno.
(ANESTHETICS LOCAL pharmacol.)

SKARDA, Rudolf, MVDr.; HOCH, Frantisek, promovany veterinarni lekar

Essay on the morphological standardization of mycotic affections. Veterinarni medicina 6 no.12:927-930 '61.

1. Katedra pro patologickou morfologii a fyziologii, Veterinarni fakulta, Vysoka skola zemedelska, Brno.

KOPACOVA, Liluse, PMr., SoS. (Bratislava, Kalinscakova 8); VRBA, Genex;
PIVNIK, Ladislav; SKARDA, Rudolf.

Histological changes in the muscle and nerve tissue after
application of depot local anesthetics. Acta pharmac 6:
113-125 '62

1. Katheder fur Pharmakodynamik and Toxikologie, Pharmazeutische
Fakultat, Bratislava (for Kopacova). 2. Katheder fur Pharmako-
logie, Fakultat der veterinaren Medizin, Brno (for all others).

3

CZECHOSLOVAKIA

BALASCAK, J., DVM; SKARDA, R., DVM; GRIEGER, C., DVM; DOLABAC, J.,
DVM.

Prague, Veterinarstvi, No 6, 1963, pp 259-263

"Chronic Hematurie in Cattle in East Slovakia."

ITZE, Lubomir; ARENDARCIK, Jozef, doc. MVDr., C.Sc.; SKARDA, Rudolf

Investigation of gonadotropic substances in the urine of
gravid mares by paper electrophoresis. Endokr. Pol. 16 no.2:
167-176 Mr-Apr'65.

1. Chair of Comparative Physiology, Veterinary Faculty of the
Agricultural College, Kosice (Head: doc. MVDr. J. Arendarcik,
C.Sc.).

SKARDA, S.

Storage, treatment, and assembly of the packing of high-pressure hydraulic drives, p. 134, STROJIRENSKA VYROBA (Ministerstvo strojiernstvi) Praha, Vol. 3, No. 4, Apr. 1955

SOURCE: East European Accessions List (EEAL) Library of Congress, Vol. 4, No. 12, December 1955

SKARDA, Slavomir

"Hydraulic presses" by Gerhard Oehler. Reviewed by Slavomir Skarda. Stroj vyr 10 no.10:535 0 '62.

USSR/General Problems of Pathology - Tumors. Metabolism. U

Abs Jour : Ref Zhur Biol., No 1, 1959, 4185

Author : Tsiyelens, E.A., Skarde, I.K.

Inst : Institute of Experimental Medicine, Academy of Sciences
of Latvian SSR

Title : The Level of Free Choline in the Blood Serum of Cance-
rous Patients.

Orig Pub : Tr. In-ta eksperim. ned. AN LatvSSR, 1956, 10, 209-214

Abstract : The content of free choline in the serum of 44 cance-
rous patients was within the limits of normal and ap-
proached the upper limit of normal in cancer of the
stomach. -- T.A. Goryukhina

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- 28 -

SKARDE, I. K.

On uropepsin secretion changes in patients with anacid gastritis, polyposis and cancer of the stomach. Vop. klin. lech. zlok. novobraz. 7:261-272 '61.

1. Respublikanskiy onkologicheskiy dispanser Ministerstva Zdravookhraneniya Latvyskoy SSR (glavnyy vrach M. G. Sopil'nyak)

(UROPEPSIN) (GASTRITIS physiol)
(STOMACH NEOPLASMS physiol) (POLYPI physiol)

SKARDIS, A.

Development of vocational and technical education in Soviet
Lithuania. Prof.-tekh. obr. 18 no.8:6-8 Ag '61. (MIRA 14:9)

1. Nachal'nik Glavnogo upravleniya professional'no-tekhnicheskogo
obrazovaniya pri Sovete Ministrov Litovskoy SSR.
(Lithuania--Technical education)

SKARDIS, A.

Training of workers for the new industries of Lithuania. Prof.--
tekh. obr. 20 no.7:14-15 J1 '63. (MIRA 16:10)

1. Nachal'nik Glavnogo upravleniya professional'no-tekhnicheskogo
obrazovaniya pri Sovete Ministrov Litovskoy SSSR.

SKARDIS, A.

Toward new frontiers. Prof.--tekh. obr. 19 no.7:3-4 J1 '62.
(MIRA 15:12)

1. Nachal'nik Glavnogo upravleniya professional'no-tehnicheskogo
obrazovaniya pri Sovete Ministrov Litovskoy SSR.
(Lithuania--Vocational education)

U S S R .

Utilization of ultrasound in detection of tuberculosis mycobacteria in pathologic materials. J. Skarls, M. Blumberg, and A. Skarla. *Latvian PSR Zinatju Akad. Vestis* 1954, No. 7 (Whole No. 84), 61-7 (in Russian; Latvian summary, 68).—Ultrasound at 380 kc. and 8 w. per sq. cm. at 38° decreased the viscosity of sputum. It also destroyed the microscopically detectable tuberculosis mycobacteria (1) but much slower than the other microorganisms present. Ultrasound irradiation of membrane filters used to cone. I slowed clogging of the filters by as much as 80%, but limits were set by slow disintegration of the filters. A. D.

LATVIA/Industrial Microbiology

F

Abs Jour : Ref Zhur Biol., No 1, 1959, 838

Author : Skard, A.Ya., Skard, I.V.

Inst : Latvian Academy of Sciences.

Title : Development of New Methods for Concentrating Tubercle Mycobacteria in Materials Under Study

Orig Pub : Izv. AN Latv. SSR, 1957, No 8, 101-106

Abstract : The mechanical method of homogenizing mucus with ultrasound (US) damages the tubercle bacilli (TB) less than chemical substances (H_2SO_4 or NaOH). Treatment of mucus with US for 1.5 minutes destroys the pus and epithelial cells, as well as the structure of the mucus gel with its mixed bacterial flora, not injured by TB. In the mucus treated with US there is a uniform bacterial distribution, while in the precipitate of the alkaline homogenate a

Card 1/2

SKARDS, A. Ya.

Homogenization of tuberculosis sputum by ultrasound [with summary
in French]. Probl.tub. 35 no.8:87-91 '57. (MIRA 11:4)

1. Iz Instituta mikrobiologii (dir. - prof. A.M.Kirkhenshteyn)
Akademii nauk Latvyskoy SSR.
(TUBERCULOSIS, PULMONARY, microbiol.
bacterial, analysis by homogenization of sputum with
ultrasound (Rus))
(SPUTUM,
homogenization with ultrasounds in bacteriol. analysis
in pulm. tuberc. (Rus))

SKARDE, A.

GENERAL

PERIODICALS: VESTIS No. 3, 1958

SKARDE, A. Research on the flotation mechanism of tuberculous microbacteria by means of supersonic waves and radioactive marking of the bacteria. In Russian. p. 65

Monthly list of East European Accessions (EEAI) LC, Vol. 8, No. 2,
February 1959, Unclass.

SKARDS, I. V.

SKARDS, I. V. -- "Study of the Mechanism of Action of the Ultrasound on Bacteria." *(Dissertations For Degrees In Science and Engineering Defended at USSR Higher Educational Institutions)(30) Latvian Agricultural Acad, Riga, 1954

SO: Knizhnaya Letonis' No 30, 23 July 1955

* For the Degree of Candidate in Technical Sciences.

С. А. ШКОЛЬНИКОВ, J.

The mechanism of the action of ultrasound on microorganisms. J. Skārds. *Latvijas PSR Zinātņu Akad. Vēstis* 1953, No. 2 (Whole No. 67), 40-50 (Russian summary, 60).—In expts. with 200-1200 kilocycle sound radiated into agar cultures of *Escherichia coli* in physiol. NaCl soln., the low intensity (1-3 w. per sq. cm.) sound was active in destroying the microorganisms only if the solns. contained dissolved air; this is explained by formation of resonance bubbles. At high intensities (12 w. per sq. cm.), the no. of live organisms decayed exponentially with time; this action is explained by radiation caused by collapsing of the elec. fields inside of the cavitation bubbles, according to Frenkel's cavitation radiation theory. Presence of Ca ion, decrease in temp., and decrease of pH from 8 to 6 decreased the bactericidal effect of the ultrasound. *Mycobacterium phlei* was approx. 10 times more sound-resistant than *E. coli*. A. D.

U S S R .

Utilization of ultrasound in detection of tuberculosis mycobacteria in pathologic materials. J. Skārds, M. Blumberga, and A. Skārda. *Latvijas PSR Zinātņu Akad. Vēstis* 1954, No. 7 (Whole No. 84), 61-7 (in Russian; Latvian summary, 68).—Ultrasound at 380 kc. and 5 w. per sq. cm. at 38° decreased the viscosity of sputum. It also destroyed the microscopically detectable tuberculosis mycobacteria (1) but much slower than the other microorganisms present. Ultrasound irradiation of membrane filters used to conc. 1 slowed clogging of the filters by as much as 80%, but limits were set by slow disintegration of the filters. A. D.

5
SKARDIN, I.V.

Production of constant-intensity ultrasonic emissions by generating the vibration in a vessel with an untuned bottom. Akust. zhur. 1 no.3: 274-285 J1-S '55. (MLRA 8:11)

1. Institut mikrobiologii Akademii nauk Latvyskoy SSR, Riga
(Ultrasonic waves)

USSR/Microbiology. General Microbiology.

F-1

Abs Jour : Ref Zhur-Biologiya, No 1, 1957, 486

Author : I. V. Skardas

Inst :

Title : Powerful Ultrasonic Installation for
Sounding Microorganisms

Orig Pub : Akust. zh., 1956, 2, No 1, 84-92

Abstract : A powerful ultrasonic installation for
sounding biological preparations in
ampoules is described. The installation
is provided with equipment which ensures
the maintenance of a specific temperature
of the sounded object. Even in the case
of ultrasounds of the highest intensity
the temperature of the sounded object
does not exceed by more than 5° the

Card 1/2

Microbiology Inst, Latvian Acad Sci

USSR/Microbiology. General Microbiology.

F-1

Abs Jour : Ref Zhur-Biologiya, No 1, 1957, 486

Abstract :: temperature of the water of the cooling installation. The installation makes it possible to sustain on an even level the intensity of the ultrasound which acts on the sounded object and to control the rising cavitations in the sounded substrata.

Card 2/2

LATVIA/Industrial Microbiology

F

Abs Jour : Ref Zhur Biol., No 1, 1959, 838

Author : Skard, A.Ya., Skard, I.V.

Inst : Latvian Academy of Sciences.

Title : Development of New Methods for Concentrating Tubercle
Mycobacteria in Materials Under Study

Orig Pub : Izv. AN Latv. SSR, 1957, No 8, 101-106

Abstract : The mechanical method of homogenizing mucus with ultra-
sound (US) damages the tubercle bacilli (TB) less than
chemical substances (H_2SO_4 or NaOH). Treatment of mucus
with US for 1.5 minutes destroys the pus and epithelial
cells, as well as the structure of the mucus gel with its
mixed bacterial flora, not injured by TB. In the mucus
treated with US there is a uniform bacterial distribution,
while in the precipitate of the alkaline homogenate a

Card 1/2

SKARDS, I.

GENERAL

PERIODICALS: VESTIS, No. 3, 1958

SKARDS, I. Research on the flotation mechanism of tuberculous microbacteria by means of supersonic waves and radiation marking of the bacteria. In Russian. p. 65

Monthly list of East European Accessions (EEA) LC, Vol.8, No. 2,
February 1959, Unclass

1. 2. 3.

Research on the use of ultrasonic waves in milk processing. Part 1. Study of sedimentation and flotation of tubercle bacilli products in milk. In *Journal of Dairy Science*, 1957.

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840. 841. 842. 843. 844. 845. 846. 847. 848. 849. 850. 851. 852. 853. 854. 855. 856. 857. 858. 859. 860. 861. 862. 863. 864. 865. 866. 867. 868. 869. 870. 871. 872. 873. 874. 875. 876. 877. 878. 879. 880. 881. 882. 883. 884. 885. 886. 887. 888. 889. 890. 891. 892. 893. 894. 895. 896. 897. 898. 899. 900. 901. 902. 903. 904. 905. 906. 907. 908. 909. 910. 911. 912. 913. 914. 915. 916. 917. 918. 919. 920. 921. 922. 923. 924. 925. 926. 927. 928. 929. 930. 931. 932. 933. 934. 935. 936. 937. 938. 939. 940. 941. 942. 943. 944. 945. 946. 947. 948. 949. 950. 951. 952. 953. 954. 955. 956. 957. 958. 959. 960. 961. 962. 963. 964. 965. 966. 967. 968. 969. 970. 971. 972. 973. 974. 975. 976. 977. 978. 979. 980. 981. 982. 983. 984. 985. 986. 987. 988. 989. 990. 991. 992. 993. 994. 995. 996. 997. 998. 999. 1000.

Monthly list of East European countries. (EMR) LG, Vol. 9, no. 2, Feb. 1960 Incl.

SKARDS, I. (Riga)

Uncovering of tuberculous mycobacteria in cow's milk using ultrasonic waves. Report V. Scoring of milk under various temperatures. Vestis Latv ak no.9:133-140 '59. (EEAI 9:10)

1. Akademiya nauk Latviyskoy SSR, Institut mikrobiologii.
(Mycobacterium tuberculosis)
(Milk) (Ultrasonics)

SKARDS, I. (Riga)

Uncovering of tuberculous mycobacteria in cow's milk using ultrasonic waves. Report VI. Localization of tuberculous mycobacteria in cow's milk depending on the fat content in it and intensivity of ultrasonic waves. Vestis Latv ak no.10:159-164 '59. (EEAI 9:10)

1. Akademiya nauk Latvyskoy SSR, Institut organicheskogo sinteza.
(Erysipelas) (Swine)

SKARDS, I.

Uncovering of tuberculous mycobacteria in cow's milk using ultrasonic waves. Report VII. Effect of suspension of tuberculous bacteria on the homogeneity of milk under its homogenization with ultrasonic waves. Vestis Latv ak no.12:137-140 '59. (EEAI 9:11)

(MYCOBACTERIUM TUBERCULOSIS)

(MILK)

(ULTRASONICS)

SKARDS, Ilmars; SHKLENNIK, Ch., red.

[Detection of Mycobacterium tuberculosis in cows' milk using ultrasonic waves] Obnaruzhenie tuberkuleznykh mikobakterii v korov'er moloke pri pomoshchi ul'trazvuka. Riga, Izd-vo AN Latviiskoi SSR, 1963. 158 p. (MIRA 17:7)

SEARDS, V.; SVIKIS, J., red.

[Pumps] Sūkni. Rīga, Izdevniecība "Liesma," 1965. 166 p.
[In Latvian] (MIRA 18:6)

CEKULINA, A.; LAVIS, A.; SKARDS, V.; TILAKS, S.; INTAITIS, E.;
KELFIS, E.; SALMANIS, A.; REINIKOVS, I.; KARKLINS, J.;
ABOLINS, J.; KULA, P.; TIMSANS, S.; JESPERINS, J.;
ERUSIS, R.; KLAVINS, E., red.

[Overall mechanization of dairy farms] Pienu lopu farmu
kompleksa mehanizacija. Riga, Latvijas Valsts izdev-
nieciba, 1964. 309 p. [in Latvian] (MIRA 18:7)

GERKE, P., akademik, otv. red.; RUDZITIS, K., prof., red.; BUMEISTERS, V.,
kand. med. nauk, red.; BRMEERGA, V., kand. med. nauk; SKARDS, Y.,
kand. med. nauk; ~~KRILOVA, N.~~, red.; LEMBERGA, A., tekhn. red.

[Clinical and experimental medicine] Kliniska un eksperimentala
medicina. Riga, PSR Zinatnu akad. izdevnissiba. Vol.1. 1962.
254 p. (MIRA 16:5)

1. Latvijas Padomju Sotsialistiskas Republikas Zinatnu akademijs.
Eksperimentalas un kliniskas medicinas instituts. 2. Latvijas
Padomju Sotsialistiskas Republikas Zinatnu Akademijs (for Gerke).
3. Latvijas Padomju Sotsialistiskas Republikas Zinatnu Akademijs
Eksperimentalas un kliniskas medicinas instituta Onkologijas sek-
tors (for Bramberga). 4. Latvijas Padomju Sotsialistiskas Repub-
likas Zinatnu Akademijs Eksperimentalas un kliniskas medicinas
instituta Kliniskas fiziologijas un terapijas sektors (for
Skards).

(MEDICINE, CLINICAL) (MEDICINE, EXPERIMENTAL)

STANCO, Y. V., Cand Med Sci—(Lith) "Vascular dystonia in chronic ischiatic
and its ^{best} resort treatment." *Riga*, 1954pp with ill. (Acad Sci Latvian SSR,
Inst of Experimental Med), 250 ed inv. (17, 4-58, 1954)

PERLI, P.D.; PORTNOV, F.G.; PETERSON, M.P.; SKARD⁵, Ya.V.; SHUL'TS, I.,
red.; BITAR, A., tekhn. red.

[Treatment of patients at the health resorts of Latvia] Le-
chenie bol'nykh na kurortakh Latviiskoi SSR, 1963. 213 p.
(MIRA 17:3)

CZECHOSLOVAKIA / Farm Animals. Swine

Q-4

Abs Jour: Ref Zhur-Biol., No 3, 1958, 12119

Author : Skarecky Frant., Kuryvial Frant.

Inst :

Title : Gleanings from the First Qualitative Evaluation of Pedigreed Swine in the Gottwaldov Oblast (iz opyta pervykh bonitirovok plemennykh sviney v Gotval'dovskoy oblasti)

Orig Pub: Nas chov, 1957, No 10, 280-282

Abstract: Out of the pedigreed boars raised on cooperative and state farms, 3.2% were classified as superior; 66.2% - as select; 22.7% - as 1st class; and 0.0% - as 2nd class. The classification of sows was 1.6%, 48.7%, 31.5% and 1.0%, respectively.

Card 1/1

SKARECKY, RUDOLF

10(0); 26(1) PRAHA I BOOK EXPLOITATION CZECH 3969
 Československá Akademie Věd. 25 let technika
 Proudní v lopatkových strojkách (Flow through Turbomachinery) Praha, Národní
 akademie věd, 1958. 413 p. (Series: 151; Sborník
 ústavu pro výzkum stroju) Firsta ally inserted. 1,250 copies printed.

Scientific Ed.: Jan Jerte, Engineer, Doctor, Corresponding Member of the Czechoslovak Academy of Sciences; Resp. Ed.: Ladislav Hrdina; Tech. Ed.: František Koutický.

PURPOSE: This collection of papers is intended for engineers and scientific workers in the field of turbomachinery.

COVERAGE: The collection covers turbomachinery theory, investigations of the flow of working substance in basic elements of turbomachines, phenomena accompanying flow and variables with time, and investigations of various problems on experimental machines and models. A Russian and an English summary follows each paper. No personalities are mentioned. There are 159 references: 73 Czech, 57 English, 30 Russian, and 1 Dutch.

2. Berger, P., Engineer, ČSA Stalogram. Optimum Solving of the Inlet to the Impeller of a Turbopressor With High Performance
 Discussion: Štefek, J., Engineer, VZLJ (Vrchný a Zkušební ústav letecký ústav-ústav letecký a Experimentální Aeronautický Ústav)
 61
 69

3. Echart, František, Engineer, Doctor of Technical Sciences, VÚT. Designing Wapod Blades of Centrifugal Pump and Water Turbine Impellers With Minimum Degree of Cavitation
 Discussion: Štefek, J., Engineer, Doctor, VZLJ
 70
 81

II. FLOW RESEARCH IN BASIC ELEMENTS OF TURBOMACHINERY
 4. Ertel, Milan, Engineer, VÚT. Systematic Research on Airfoil Cascades
 Discussion: Ebs, Miroslav, Engineer, VÚT
 95
 110
 123
 124

5. Ertel, Milan, Engineer, VÚT. Methods of Research on Airfoil Cascades and Their Application in Designing Turbine Blades
 Discussion: Ertel, Milan, Engineer, VÚT (The First Brno Engineering Works of Klement Gottwald) Design of a Reaction Turbine Blade Profile
 131
 146

6. Bubovský, Jan, Doctor C. Sc. (Civil Aeronautics) VZLJ. Research on Arrangement of Blading in High-speed Turbomachinery
 Discussion: Ertel, Milan, Engineer, VÚT (V. I. Lenin Jerts, Plzeň).
 146
 200

7. Zalc, Vladimír, Doctor, Engineer, ZVL (V. I. Lenin Jerts, Plzeň). Evaluation of Measurements of Airfoil Cascades and Use of Analog Computers
 Discussion: Ertel, Milan, Engineer, VÚT (Institute of Mathematical Mechanics, Czech Academy of Sciences), Basic Functional Elements of the Anapros Analog Computer
 203
 223

8. Štefek, Josef, Engineer, VÚS (Machinery Research Institute) ZVL, VÚS. Vlní Tm. 1 for Airfoil-Cascade Research
 Discussion: Štefek, Josef, Doctor of Natural Sciences, VZLJ. Modern Ideas on Turbulence in the Boundary Layer
 Discussion: Droška, R., Engineer, and M. Píchal, Engineer, ČVÚ (Institute for Research on Machinery, ČSAV). Contribution to Measuring Turbulence in a Compressible Medium
 223
 235
 245

9. Štefek, Josef, Engineer, VÚT. Self-excited Vibrations of Blades in Turbomachinery
 249
 9

SI-MICROSCOPY

CZECHOSLOVAKIA/Solid State Physics - Phase Transitions in Solids E-6

Abs Jour : Raf Zaur - Fizika, No 5, 1958, No 10606

Author : Eys Franysl, Bezdek Ladislav, Cina Karel, Ruzicka Dalibor,
Skarek Jiri

Inst : NOV GIVEZ

Title : Microscopic Investigation of Metals at High Temperatures and
at Temperatures Below Zero

Orig Pub : Rozpr. CSAV, 1957, IV67, No 3, 57x., 11

Abstract : A detailed description of a microscope for the study of structures at higher temperatures and at temperature below zero. The authors consider the problem of the effect of various physical and chemical factors on the structure and analyze in detail the theory of thermal etching of metals. A survey of work of the authors on the microscopy of steel, cast iron, copper and bronze at various temperatures is included. Bibliography, 37 titles.

Card : 1/1

CZECHOSLOVAKIA/Solid State Physics - Phase Transitions in Solids E-6

Abs Jour : Ref Zhur - Fizika, No 11, 1958, No 25228

Author : Rys Frenysl, Bezdek Ladislav, Ciha Karel, Ruzicka Dalibor,
Skarek Jiri

Inst : Not Given

Title : Investigation of Metallic Structures at High and Low Temperatures.

Orig Pub : Acta techn. (Ceskosl.), 1958, 3, No 1, 58-83

Abstract : A description is given of the apparatus and of a procedure from metallographic investigation of metals and alloys at high ($\sim 600^{\circ}\text{C}$) and low (-196°C) temperatures. The high-temperature microscope makes it possible to carry out direct observation of the specimen at high temperatures in vacuum or in a protective atmosphere. Heating of specimens is carried out by passage of electric current, or also by heat transfer from the furnace (eight specimens can be heated simultaneously). In the former case the rate of heating is $\sim 1500^{\circ}/\text{minute}$, in the second it is $\sim 300^{\circ}/\text{minute}$; with an accuracy of $\pm 0.5\%$.

Card : 1/2

CZECHOSLOVAKIA/Solid State Physics - Phase Transitions in Solids E-6

Abs Jour : Ref Zhur - Fizika, No 12, 1958, No 27496

Author : Rys Prmysl, Bezdek Ladislav, Ciha Karel, Ruzicka Dalibor,
Skarek Jiri

Inst : Not Given

Title : Investigation of the Structure of Metals at High and Low
Temperatures. 3-4.

Orig Pub : Acta techn. (Ceskosl.), 1958, 3, No 2, 85-120

Abstract : Continuation of a previous work (Referat Zhur Fizika, 1958,
No 11, 25228). In this part a procedure is discussed for
the manufacture of specimens with thermal etching and results
of an investigation at high temperatures. A large number
of microphotographs are included.

Card : 1/1

SKAREK, J

24(6)

PHASE I BOOK EXPLOITATION

CZECH/2580

PIŠEK, František, Academician; Aleš Vetiška, Doctor, Engineer; Jiří Škarek, Engineer (Part 1); Karel Čiha, Engineer; Martin Černohorský, Doctor; and Dalibor Ružička, Engineer (Part 2)

Knihy o materiálu. II. 1. svazek; 2 svazek (The Science of Materials. Vol. II. Part 1 and Part 2) Praha, Nakladatelství Československé Akademie Věd, 1979. Part 1, 658 p., Part 2, 669 p. Errata slip inserted. 4250 copies printed.

Sponsoring Agency: Československá Akademie Věd. Sekce technická.

Scientific Ed.: Ladislav Jeníček, Professor, Engineer, Doctor; Reviewers: Jaroslav Němec, Professor, Engineer, Doctor, Josef Šnec, Engineer, Vladimír Hajdovský, Doctor, Milič Roubal, Engineer, Josef Vodešálek, Engineer; Zdeněk Ministr, Engineer, and Antonín Fingerland; Resp. Ed. Ladislav Hrdina; Tech. Ed.: Jaroslav Hrubý.

PURPOSE: This book is for engineers and technicians in the field of mechanical engineering, specializing in the strength of materials.

COVERAGE: This is the second volume of an exhaustive work entitled "Science of

Card 1/41

CIH., Karel; SKAČEK, Jiri

Comparison and evaluation of methods for revealing the
austenitic grain size of steels. Rozpravy techn CSAV
74 no. 7:1-81 '64.

L 9522-66 EWP(w)/EWA(d)/T/EWP(z)/EWP(b) JD

ACC NR: AP6002635

SOURCE CODE: CZ/0032/65/015/002/0110/0116

AUTHOR: Skarek, J.; Holzmann, M.

ORG: Institute of the Properties of Metals, CSAV, Brno (Ustav vlastnosti kovu CSAV)

TITLE: Mechanical properties of low-carbon hardened steel

SOURCE: Strojirenstvi, v. 15, no. 2, 1965, 110-116

TOPIC TAGS: low carbon steel, martensite, metal property, solid mechanical property

ABSTRACT: The article deals with the mechanical properties of low-carbon martensite under static, cyclic and impact loads. It stresses the outstanding strength of hardened low-carbon steels, combined with satisfactory ductility, high fatigue limit and low critical temperature of embrittlement. Its main shortcoming is limited hardenability, so that its good properties can be fully utilized only in the case of small parts with thin walls. Recent research work indicates that low-carbon steel may find wider fields of application in the near future. This work was presented by Engr. V. Linhart, Candidate of Sciences. Orig. art. has: 13 figures, 2 tables. [JPRS]

SUB CODE: 11 / SUBM DATE: none / ORIG REF: 007 / OTH REF: 006
SOV REF: 001

beb
Card 1/1

2

ACC NR: AP7003629

SOURCE CODE: CZ/0065/66/000/006/0505/0518

AUTHOR: Habrovec, Frantisek; Kounicky, Jan; Rys, Premysl; Skrek, Jiri

ORG: Institute of Metal Properties, CSAV, ^{BRNO} (Ustav vlastnosti kovu CSAV)

TITLE: Nature of the refining of Fe-Ni-C alloy martensite by repeated austenitizing

SOURCE: Kovove materialy, no. 6, 1966, 505-518

TOPIC TAGS: ~~high~~ nickel steel, steel mechanical proeprty, steel heat treatment, martensite, austenitic steel, tensile strength, yield stress, elongation

ABSTRACT: A series of experiments has been performed to determine the effect of repeated austenitizing with rapid heating on the mechanical properties and the morphology of martensite of a nickel steel (0.42% carbon and 24.5% nickel; M_s temperature—36°C). Steel specimens 1.7 mm thick, 3.4 mm wide, and 80 mm long were austenitized at 1050°C for 30 min, quenched in liquid nitrogen, reheated by passing electric current for various periods of time (to reach a certain temperature which, however, was not measured directly), water quenched and refrigerated in liquid nitrogen for 1.5 hr. The dependence of mechanical properties on the power consumed for reheating (i.e., the austenitizing temperature) was found to follow a complex pattern (see Fig. 1). The best combination of properties, a tensile strength of almost 200 kp/mm², a yield strength of about 160 kg/mm², a yield strength of about 160 kg/mm² and an elongation of about 9%, was obtained at a power consumption of 1000 w. The structure of the alloy treated under these conditions consisted mainly of a fine acicular martensite. With increasing power consumption, the acicular martensite
Card 1/3 UDC: none

ACC NR: AP7003629

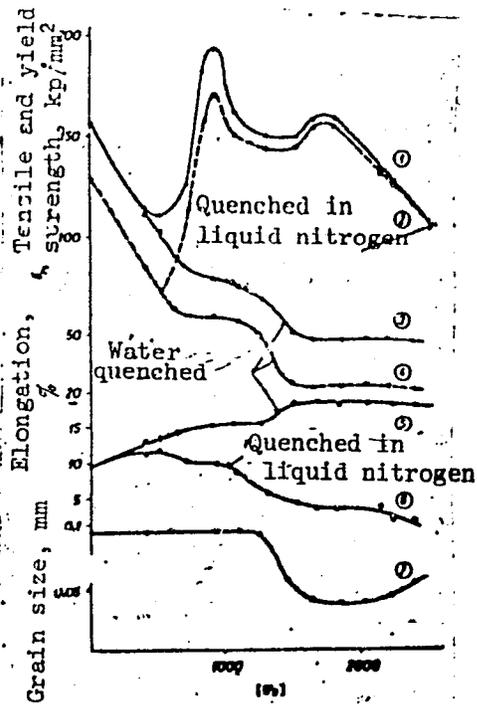


Fig. 1. Dependence of tensile strength (1, 3), yield strength (2, 4), elongation (5, 6) and grain size of the nickel steel on the power consumption for re-austenitizing

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ACC NR: AP7003629

is gradually replaced by lamellar martensite, which has lower strength and ductility (second maximum on curve 1). Orig. art. has: 14 figures.

SUB CODE: 11, 13/ SUBM DATE: 17May66/ ORIG REF: 008/ OTH REF: 010/

Card 3/3

SKARLEK, J.; HOLZMANN, M.

Mechanical properties of low-carbon hardened steel. Strojirenství
15 no.2-110-116 P. 165.

1, Institute of Metal Properties of the Czechoslovak Academy
of Sciences, Brno.

SKARHINSKI, M.

S.

Allocation of Time for Manual Core Making in Core Boxes for Small and Medium Serial Production. M. Skarhinski. (Przeglad Olszyniakow, 1962, 2, Mar., 71-70). (In Polish).

The problems of unwinding with special reference to the timing of individual operations are discussed. --v.g.

immediate source clipping

SKARIC, D.

SKARIC, D. Selecting automatic high-pressure systems, (to be contd.) p. 102.

Vol. 9, no. 9, 1955
ELEKTROTEHNIČAR
Zagreb, Yugoslavia

So: Eastern European Accession Vol. 5 No. 4 April 1956

L 12338-63

BDS ESD-3 RM

S/081/63/000/005/036/075

AUTHOR: Skaric, D., Skaric, V., Turjak-Zebic, V. and Veksli, Z. 55TITLE: 2-phenyl-4,5,6,7-tetrahydroindazol-3-one carboxylic acid I.
Synthesis and propertiesPERIODICAL: Referativnyy zhurnal, Khimiya, no. 5, 1963, 241, abstract 5Zh222
(Croat. chem. acta, 1962, v. 34, no. 2, 75-83)

TEXT: By condensation of triethyl ester (tri-EE) of cyclohexanone-2,4,4-tricarboxylic acid (I) and di-EE of cyclohexanone-2,4-dicarboxylic acid (II) with $\text{NH}_2\text{NHCC}_6\text{H}_5$, di-EE-5,5-dicarboxy- and EE-5-carboxy-2-phenyl-4,5,6,7-tetrahydroindazol-3-one (III, IV) acids were synthesized. III and IV exist in enol form, and are titrated as tribasic and dibasic acids respectively. Di-EE III and EE-IV for the same reasons in potentiometric titrations have properties of monobasic acids. The spectra of II demonstrate its tendency to form internal complexes. 3.8 m-moles of I in 18 ml 50% alcohol and 3.9 m-moles of $\text{NH}_2\text{NHC}_6\text{H}_5$ are boiled for 6 hours, held at 0°C and di-EE III, $\text{C}_{19}\text{H}_{22}\text{N}_2\text{O}_5 \cdot \text{H}_2\text{O}$ is separated, the yield is 78%, m.p. 76°C from alcohol, which is hydrolyzed by methanolic KOH (boiling for 4 hours) or 10% HCl (boiling for 8 hours) in III, $\text{C}_{15}\text{H}_{14}\text{N}_2\text{O}_5 \cdot \text{H}_2\text{O}$, yield is 94% m.p. $163-165^\circ\text{C}$

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L 12338-63

S/081/63/000/005/036/075

2-phenyl-4,5,6,7-tetrahydroindazol-.....

(from aqueous alcohol); anhydrous III, m.p. 249-250°C (decomposes; from alcohol);
by boiling III with glacial CH₃COOH. C₁₈H₁₈N₂O₂ is obtained in the same manner from
II EE IV, yield 62%, m.p. 168-169°C (from alcohol) hydrolyzing in IV, C₁₄H₁₄N₂O₃,
yield is 86.4%, m.p. 249°C (decomposes, from aqueous CH₃OH). IV is also obtained
by decarboxylation of III at 260°C. The article gives IR-spectral curves as well
as NMR of III and UV-spectra of IV. V. Rodinov.

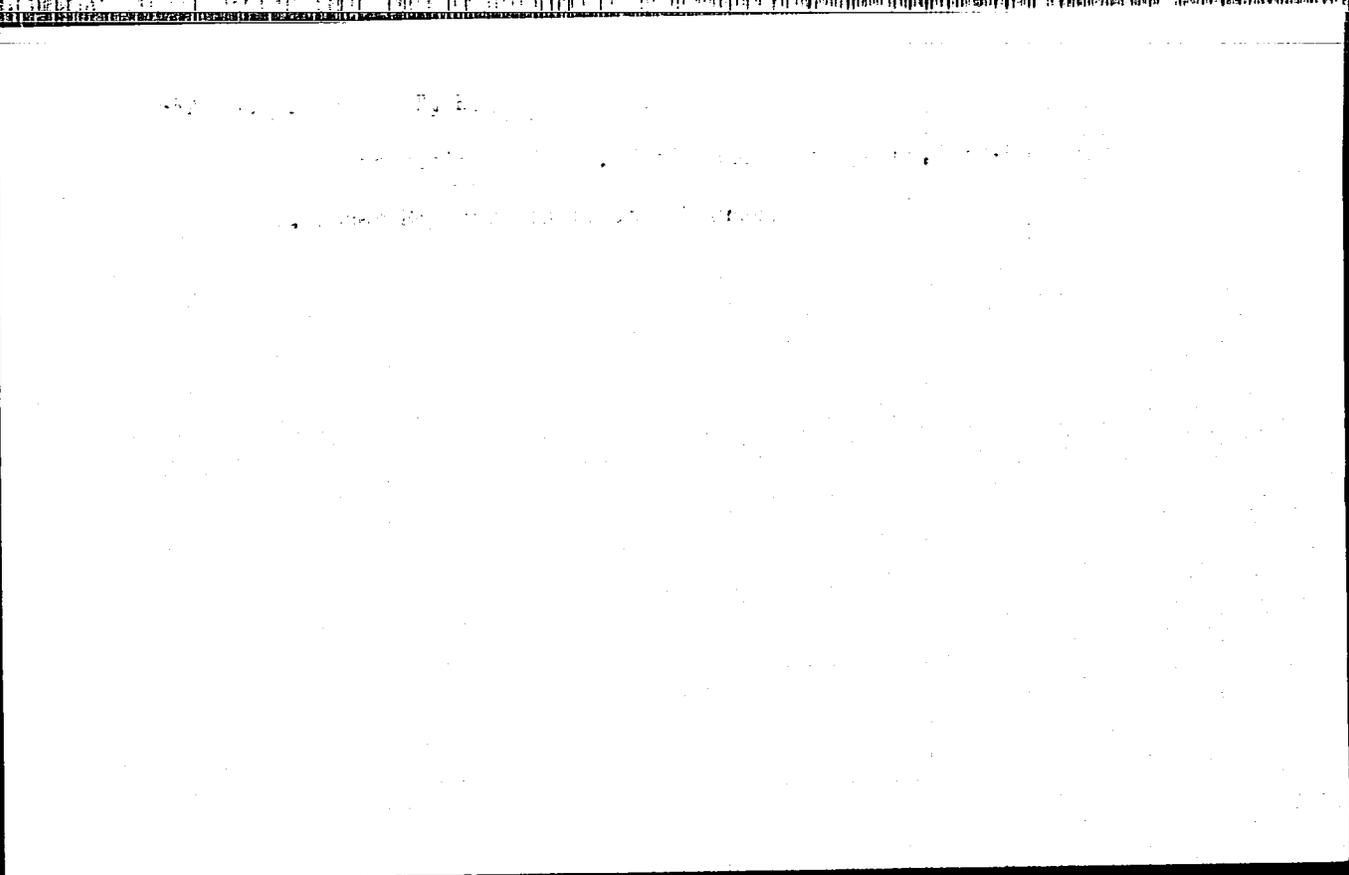
[Abstractor's note: Complete translation]

Card 2/2

SKARIC, D.; SKARIC, V.; TURJAK-ZEBIC, V.

4,5,6,7-tetrahydroindazol-3-one carboxylic acids. Pt. 2.
Reductive cleavage to ring substituted 2-carboxamide
cyclohexylamine. Croat chem acta 35 no.2:143-146 '63.

1. Institute "Ruder Boskovic", Zagreb, Croatia, Yugoslavia.
2. Clan Redakcionog odbora, "Croatica Chemica Acta" (for V. Skaric).



SKARIC, D.; SKARIC, V.; TURJAK-ZEBIC, V.

4,5,6,7-tetrahydroindazol-3-one carboxylic acids. Pt.3.
Croat chem acta 35 no.4:267-273 '63.

1. Institute "Ruder Boskovic", Zagreb, Croatia, Yugoslavia.
2. Member of the Editorial Board, "Croatica Chemica Acta" (for Skaric, V.

SKARIC, V.

SKARIC, V.

Yugoslavia (430)

Technology

Introduction to analytical distillation. p 228. NAFTA, Vol 3, no 8,
August 1952.

East European Accessions List. Library of Congress, Vol 2, no 3,
March 1953. UNCLASSIFIED

Skarić, Y.

Structural analysis of gasoline fractions from crude oil
M. Kiler, M. Slunjski, and Y. Skarić (Inst. Rađarstva
Njive, Yugoslavia) *J. Polym. Sci. C.A.* 48, 11077.
The contents of aromatic, naphthenic, and paraffin hydro-
carbons of 5 crude oils from the Petikovec oil field were deter-
mined by indirect methods of hydrocarbon-type analysis in which
the refractivity intercept calculated from n (cf. Fujita, Jr., *J.*
Polym. Sci. A. 41, 3281) and specific dispersion data obtained from
 d were used. The accuracy of the results obtained was
checked by applying H_2SO_4 and P_2O_5 extrn. and a chromatog-
raphic method (cf. Maier, *C.A.* 39, 4028*).

LFH

SKARIC, V.

✓ The chemistry of higher fungi. III. Contribution to the chemistry of the genus *Russula*. K. Balenović, D. Cenur, M. Z. Pušar, and V. Štarić (Univ. of Zreb, Yugoslavia). *Archiv hem.* 27, 15-20 (1955) (in English); cf. *Archiv hem.* 26, 233 (1954). Interest in the study of chemistry of *Russula* arises from the fact that it has not been studied for half a century with newer chem. techniques. Fresh fruit bodies of *Russula omelica* (30.2 kg.) were peeled and the red peelings (5.6 kg.) extd. twice with 2 parts of 90% EtOH at 0-10°. EtOH was evapd. *in vacuo*, the residue extd. with Et₂O, and the aq. soln. yielded on further evapn. 140 g. of mannitol (I). The dark-red sirupy residue was evapd. to dryness (ext. A). The peeled fungi (30.5 kg.) were treated in the same manner, and 462 g. of I and 333 g. of the EtOH ext. (B) were obtained. A (8 g.) dissolved in 150 ml. H₂O was passed through a column of cellulose powder (17 X 2 cm., 16 g., Whatman, standard grade, B quality), washed with H₂O, eluted with 5% AcOH, eluent evapd. *in vacuo* to give a dark-red, semicryst. solid, referred to as russularhodin (II). II (200 mg.) was obtained from the peelings of 38 kg. of fresh fungi. II was sol. in H₂O and AcOH, sparingly sol. in EtOH and other org. solvents, did not react with a 1% soln. of FeCl₃ in MeOH nor with ninhydrin, gave an orange fluorescence when adsorbed on cellulose at pH 7, but the fluorescence disappeared on elution with 5% AcOH. II was discolored in a short time when treated with H (Zn + HCl) at room temp. II (5 mg.) was hydrolyzed with N HCl (5 ml.) for 12 hrs. but yielded no product with a pos. test on amino acids or carbohydrates. At least 6 fluorescent components having R_f between 0.52 and 0.70 could be de-

(RUS.)

K. Balenovic

ected by paper chromatography of A on Whatman No. 1 paper with the system PhOH-H₂O. Paper electrophoresis was carried out during 20 hrs. on Munktell Paper 20/160; the strip was 30 X 1.5 cm., in H₂BO₃-NaOH-NaOAc buffer, at a pH 8.90, ionic strength 0.0482. Voltage on the electrodes was 140 v.; c.d. in the strip was 0.22 mm./cm. at the beginning and 0.45 mm./cm. at the end of the electrophoresis. At least 8 compds with red, yellow, blue, violet, and purple fluorescence could be detected. In an attempt to sep. it into its components by the use of Craig's countercurrent distribution procedure with the system BuOH-AcOH-H₂O (16:5:20), it was shown that I and II have practically the same partition coeffs. Muscarine-like activity of B was 8-10 muscarine units per 1 g. of ext. D. Ples

SKARIC, V.

Optically active amino aldehydes II. Preparation of
cyclic acetals of primary amino aldehydes. contribution
to the knowledge of the stereospecificity of muscarinic ac-
tivity. B. Jankovic, N. Ruzic, T. Gajic, Z. Stojanovic

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0

acetals $RCH(NH_2)CH_2OCH_2CH_2O$ are prepd. from the corresponding NH_2 acids or from the tetrahydroimidazole derivs and are converted into their quaternary $C_4H_9N^+$ salts. Condensation of $p-C_6H_4CO_2NCH_2CH_2CHO$ with $(C_6H_5)_2NH$ gives 1,1-diphenyl-2-(3-phthalimidomethyl)ethanol (I), needles, m. 148°. Slowly distill 0.1 g. of phthaloyl-L-alanine aldehyde, soln. in 20 cc. (CH_3OH) and 0.2 g. $p-MeC_6H_4SO_3H$, and 300 cc. CH_2Cl_2 , 6 hrs. with simultaneous removal of 1.2 cc. H_2O , and evapg. the wash and in a C_6H_6 soln. give 86% *N*-phthaloyl-L-alanine aldehyde allylic acetal (II). Slowly diss. 20 g. I, 12.5 cc. (CH_3OH) , and 15.3 g. $PhSO_3H$ in 900 cc. C_6H_6 and 10 cc. H_2O 3 hrs. with simultaneous removal of the H_2O and evapg. the washed and dried C_6H_6 soln. give 100% 3-phthalimidopropionaldehyde allylic acetal (III), needles, m. 112-113°. Reducing Sug. III with 75 cc. alc. H_2O and 50 cc. $EtOH$ and adding CH_2Cl_2 to the filtered soln., and evapg. the filtered soln. give β -amino propionaldehyde allylic acetal by 70-5°. Treating L-alanine aldehyde allylic acetal with MeI according to Fischer (Ber. 26, 464 (1893)) gives

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Acetylcholine, (CH3)2N+(CH2)3COO-

80.7% (1-farazylol) bromide... acetal (IV); 1-farazylol... NCH2CH2CHO ethylene acetal in 68% yield, platelets, m.

The following addnl. NH2 derivs. are prepd.: n-... m. 105-8°; 2-phenyl... m. 60°; L-trypt... m. 105-8°

... m. 105-8°; 2-phenyl... m. 60°; L-trypt... m. 105-8°

... m. 105-8°; 2-phenyl... m. 60°; L-trypt... m. 105-8°

... m. 105-8°; 2-phenyl... m. 60°; L-trypt... m. 105-8°

... m. 105-8°; 2-phenyl... m. 60°; L-trypt... m. 105-8°

... m. 105-8°; 2-phenyl... m. 60°; L-trypt... m. 105-8°

... m. 105-8°; 2-phenyl... m. 60°; L-trypt... m. 105-8°

... m. 105-8°; 2-phenyl... m. 60°; L-trypt... m. 105-8°

... m. 105-8°; 2-phenyl... m. 60°; L-trypt... m. 105-8°

... m. 105-8°; 2-phenyl... m. 60°; L-trypt... m. 105-8°

... m. 105-8°; 2-phenyl... m. 60°; L-trypt... m. 105-8°

... m. 105-8°; 2-phenyl... m. 60°; L-trypt... m. 105-8°

... m. 105-8°; 2-phenyl... m. 60°; L-trypt... m. 105-8°

... m. 105-8°; 2-phenyl... m. 60°; L-trypt... m. 105-8°

... m. 105-8°; 2-phenyl... m. 60°; L-trypt... m. 105-8°

... m. 105-8°; 2-phenyl... m. 60°; L-trypt... m. 105-8°

... m. 105-8°; 2-phenyl... m. 60°; L-trypt... m. 105-8°

... m. 105-8°; 2-phenyl... m. 60°; L-trypt... m. 105-8°

... m. 105-8°; 2-phenyl... m. 60°; L-trypt... m. 105-8°

... m. 105-8°; 2-phenyl... m. 60°; L-trypt... m. 105-8°

... m. 105-8°; 2-phenyl... m. 60°; L-trypt... m. 105-8°

... m. 105-8°; 2-phenyl... m. 60°; L-trypt... m. 105-8°

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... m. 105-8°; 2-phenyl... m. 60°; L-trypt... m. 105-8°

... m. 105-8°; 2-phenyl... m. 60°; L-trypt... m. 105-8°

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SKARIC, V.

Synthesis of aminomethyl derivatives. III. Aminomethyl derivatives of p-aminobenzoic acid and valine. K. Balcanovic, V. Skaric, and D. Drganic (Cib. Zvez. Jugoslavija). *Chem. Zvez.* 28, 111-2 (1955) (in Eng. transl); cf. *C.A.* 48, 6064t; $\text{EtCH}_2\text{CO}_2\text{H}$ (75g.) to 100 ml. 25% NH_3 kept 30 hrs.; evaporated to dryness; and the residue extd. with abs. MeOH gave 33.5-4.5 g. $\text{H}_2\text{NCH}_2\text{CO}_2\text{H}$ I, m. 293-5° (decomp.). I (37.5 g.) and 84.9 g. $\text{C}_6\text{H}_5(\text{CO})_2\text{O}$ was heated 1 hr. at 150-60° and treated with C_6H_6 to give 82-5 g. RCO_2H (II) (K. = p- $\text{C}_6\text{H}_4(\text{CO})_2\text{NCH}_2\text{CO}_2\text{H}$ throughout this abstr.), m. 98.5-3° (from C_6H_6). Reducing 32 g. II and 40 ml. SOCl_2 1 hr. and distg. gave 23-3 g. $\text{H}_2\text{NCH}_2\text{COCl}$ (III), b.p. 181-5°, n_D 1.517, m. 53° (from per. etal.). III (20 g.) and 500 ml. CH_3NH_2 in H_2O (prepd. from 35 g. $\text{H}_2\text{NCONMeNO}$) gave 18 g. $\text{RCOCH}_2\text{NH}_2$ IV, m. 117-18.5° (decomp.) (from EtOAc). Adding 1 g. IV to 20 ml. AcOH, refluxing the mixt. 2 hrs., and evapg. gave a quant. yield of $\text{RCOCH}_2\text{NHAc}$ V, b.p. 125°. Adding 18 ml. 40% HCl to 16.7 g. V in 60 ml. AcOH with stirring, keeping 1 hr., and adding 700 ml. H_2O yielded 20 g. $\text{RCOCH}_2\text{NH}_2$ (VI), m. 118.5° (from Me₂CO-Et₂O). VI (21 g.) was refluxed in 60 ml. $\text{C}_6\text{H}_5\text{NH}_2$ to yield 25 g. $\text{RCOCH}_2\text{N}(\text{C}_6\text{H}_5)_2$ (VII), m. 22° (from abs. EtOH). Treating 16.3 g. VII in 12 ml. EtOH with 42 ml. H_2O with 6.3 g. p- $\text{ONC}_6\text{H}_4\text{NMe}_2$ in 200 ml. EtOH at 5° and adding 21 ml. N NaOH with stirring gave 13.2 g. p- $\text{RCOCH}_2\text{N}(\text{C}_6\text{H}_4\text{NMe}_2)_2$ (VIII), m. 132-3° (from EtOH).

SKARIC, D.; SKARIC, V.; TURJAK-ZEBIC, V.; VEKSIL, Z.

2-phenyl-4,5,6,7-tetrahydroindazol-3-one-carboxylic acids. I.
Synthesis and properties. Croat chem acta 34 no.2:75-83 '62.

1. Institute "Ruder Boskovic", Zagreb, Croatia, Yugoslavia.

L 12338-63

BDS ESD-3 RM

S/081/63/000/005/036/075

AUTHOR: Skaric, D., Skaric, V., Turjak-Zebic, V. and Vekseli, Z. 55

TITLE: 2-phenyl-4,5,6,7-tetrahydroindazol-3-one carboxylic acids I.
Synthesis and propertiesPERIODICAL: Referativnyy zhurnal, Khimiya, no. 5, 1963, 241, abstract 5Zh222
(Croat. chem. acta, 1962, v. 34, no. 2, 75-83)

TEXT: By condensation of triethyl ester (tri-EE) of cyclohexanone-2,4,4-tricarboxylic acid (I) and di-EE of cyclohexanone-2,4-dicarboxylic acid (II) with $\text{NH}_2\text{NHC}_6\text{H}_5$, di-EE-5,5-dicarboxy- and EE-5-carboxy-2-phenyl-4,5,6,7-tetrahydroindazol-3-one (III, IV) acids were synthesized. III and IV exist in enol form, and are titrated as tribasic and dibasic acids respectively. Di-EE III and EE-IV for the same reasons in potentiometric titrations have properties of monobasic acids. The spectra of II demonstrate its tendency to form internal complexes. 3.8 m-moles of I in 18 ml 50% alcohol and 3.9 m-moles of $\text{NH}_2\text{NHC}_6\text{H}_5$ are boiled for 6 hours, held at 0°C and di-EE III, $\text{C}_{19}\text{H}_{22}\text{N}_2\text{O}_5 \cdot \text{H}_2\text{O}$ is separated, the yield is 78%, m.p. 76°C from alcohol, which is hydrolyzed by methanolic KOH (boiling for 4 hours) or 10% HCl (boiling for 8 hours) in III, $\text{C}_{15}\text{H}_{14}\text{N}_2\text{O}_5 \cdot \text{H}_2\text{O}$, yield is 94% m.p. $163-165^\circ\text{C}$

Card 1/2